ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/03 Date Received: 01/23/03

Project: Metro Self Monitor, PO#M69328, F&BI 301177

Date Extracted: 01/31/03 Date Analyzed: 01/31/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

| Sample ID | Chromium | Copper | <u>Nickel</u> | <u>Zinc</u> |
|---------------|----------|--------|---------------|-------------|
| Laboratory ID | | | | |
| M69328 | 0.19 | 0.24 | 0.16 | 0.07 |
| 301177-01 | | | | |
| | | | | |
| Method Blank | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

ENVIRONMENTAL CHEMISTS

Date of Report: 02/06/03 Date Received: 01/23/03

Project: Metro Self Monitor, PO#M69328, F&BI 301177

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 301240-01 (Duplicate)

| The said bade and | ta fall a subfigue of the first | | | Kelative | |
|-------------------|---------------------------------|---|---|--|---|
| | Reporting | Sample | Duplica | te Percent | Acceptance |
| Analyte | Units | Result | Result | Difference | Criteria |
| Chromium | mg/L (ppm) | 0.17 | 0.17 | 0 | 0-20 |
| Copper | mg/L (ppm) | 0.18 | 0.18 | 0 | 0-20 |
| Nickel | mg/L (ppm) | 0.09 | 0.09 | 0 | 0-20 |
| Zinc | mg/L (ppm) | 0.12 | 0.05 | a | 0-20 |
| | Chromium Copper Nickel | Analyte Units Chromium mg/L (ppm) Copper mg/L (ppm) Nickel mg/L (ppm) | Analyte Units Result Chromium mg/L (ppm) 0.17 Copper mg/L (ppm) 0.18 Nickel mg/L (ppm) 0.09 | Reporting Analyte Reporting Units Sample Result Duplica Result Chromium mg/L (ppm) 0.17 0.17 Copper mg/L (ppm) 0.18 0.18 Nickel mg/L (ppm) 0.09 0.09 | Analyte Reporting Units Sample Result Duplicate Result Percent Difference Chromium mg/L (ppm) 0.17 0.17 0 Copper mg/L (ppm) 0.18 0.18 0 Nickel mg/L (ppm) 0.09 0.09 0 |

Laboratory Code: 301240-01 (Matrix Spike)

| | Reporting | Spike | Sample | % Recov | ery Acceptance |
|----------|------------|-------|--------|---------|----------------|
| Analyte | Units | Level | Result | MS | Criteria |
| Chromium | mg/L (ppm) | 2 | 0.17 | 91 | 80-120 |
| Copper | mg/L (ppm) | 2 | 0.18 | 89 | 80-120 |
| Nickel | mg/L (ppm) | 4 | 0.09 | 90 | 80-120 |
| Zinc | mg/L (ppm) | 2 | 0.12 | 88 | 80-120 |

Laboratory Code: Laboratory Control Sample

| | Reporting | Spike | % Recov | ery % Recov | ery A | Acceptanc | e R | RPD |
|----------|------------|-------|---------|-------------|-------|-----------|------|---------|
| Analyte | Units | Level | LCS | LCSI | D | Criteria | (Lin | nit 20) |
| Chromium | mg/L (ppm) | 2 | 97 | 94 | | 80-120 | | 3 |
| Copper | mg/L (ppm) | 2 | 97 | 95 | | 80-120 | | 2 |
| Nickel | mg/L (ppm) | 4 | 97 | 95 | | 80-120 | | 2 |
| Zinc | mg/L (ppm) | 2 | 98 | 95. | | 80-120 | | 3 |

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 6, 2003

DUPLICATE COPY

INVOICE # 03ACU0206-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO#M69328, F&BI 301177 - Results of testing requested by Gerry Thompson for material submitted on January 23, 2003.

FEDERAL TAX ID #(b) (6)

| 301177 sa | MPLE CHAIN OF CUSTODY | ME | 01/28/03 BI2 |
|---|---------------------------------------|---------------|---|
| Send Report To GIERALD Thompson Company ALASKAN Coppek Works Address 628 HANFORD ST | PROJECT NAME/NO. METRO SELE Monitore | PO# m69328 | Page #of TURNAROUND TIME Standard (2 Weeks) RUSH_ Rush charges authorized by: |
| City, State, ZIP Seattle WA Phone # 206-382-8376 Fax # 206-382-4369 | REMARKS | | SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions |

| | | | | | | | | | | ANA | LYS | ES R | EQU | EST | ED | | | |
|------------------------|-----------------|---------|------|-------------|-----------------|------------|--------------|---------------|--------------|-----------------|-----|----------------|-----|----------|--|----|---------|----------------|
| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | CR, Cu, Ni, 2N | | | | | N | otes |
| M69328 | 01 | 1/23/03 | | H20 | / | | | | | | | | | | | | | |
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| Friedman & Bruya, Inc. | | SIGNATU | RE | | PRINT | | | | | | | A | | ANY | | | DATE | TIME |
| 3012 16th Avenue West | Relinquished by | 1/2 | | , G. | Thom | 250 | 1 | | | | 1 | 4.(| 2.6 | 2 | | 14 | 23/03 | 1:30pm |
| Seattle, WA 98119-2029 | Received by: | E.A | Jak. | T. | Thong De 60 | al | 4 | , | | | F | 4 | | <u> </u> | | | 1/23/03 | 1:40pm |
| Ph. (206) 285-8282 | Relinquished by | : | / | 10 | | | | | | 1 | | | | • | | | | , |
| Fax (206) 283-5044 | Received by: | | | | | | | | | + | | | | | | | | |
| FORMS\COC\COC DOC | | | W | L | | | | | | | | | | | | i_ | | I |

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 6, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 23, 2003 from the Metro Self Monitor, PO#M69328, F&BI 301177 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0206R.DOC